## What is claimed is:

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	Wilde to claimed to.
1	X. A method usable with a wireless medium and local stations, comprising:
2	communicating a request between one of the local stations and a central authority to
3	reserve a time slot for transmitting from said one of the local stations;
4	using the central authority to selectively reserve the time slot based on at least in par
5	reservation schedule; and
6	if the central authority reserves the time slot, during the time slot, preventing the oth

local stations from transmitting.

2. The method of claim 1, further comprising: transmitting real time information from said one of the local stations during the time slot.

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- The method of claim 2, wherein the real time information indicates an audio 3. stream.
- The method of claim 2, wherein the real time information indicates a video 4. stream.
- The method of claim 1, wherein the ldcal stations and the central authority form at 5. least part of a wireless local area network.
- The method of claim 1, wherein the communicating the request comprises: 6. transmitting a reservation frame between said one of the local stations and the central authority.
- 1 7. The method of claim 6, wherein the reservation frame indicates one or more of the 2 following:
- 3 a traffic priority, a start time, and a traffic type.

slot at least in part on a policy associated with said one of the local stations.

The method of claim 1, further comprising:

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acceptance or refusal of the request.

communicating between the central authority and said one of the local stations to indicate

1	10.	The viethod of claim 1, further comprising.
2	before	the beginning of the reserved time slot, transmitting a frame from the central
3	authority to u	pdate a network allocation vector of each local station with a duration of the time
4	slot to cause a	at the remaining local stations to ascertain that the wireless medium is busy during
5	the time slot.	
1	17.	The method of claim 1, wherein the local stations and the central authority are
2	associated wit	th a cell, the method further comprising:
3	comm	unicating the request the central authority and another central authority that is
4	associated wit	th another cell,
5	where	in the selective reservation by the first central authority is further based at least in
677	part on the res	servation schedule maintained by the first central authority.
1	18.	The method of claim 1, further comprising:
2	using	the central authority to cancel the reserved time slot.
1	19.	The method of claim 18, wherein the central authority selectively cancels the
2	reserved time	slot based on whether said one of the local stations did not transmit during a
3	previously scl	neduled time slot.
1	20.	The method of claim 18, wherein the central authority selectively cancels the
2	reserved time	slot based on whether said one of the local stations transmits a cancellation request.
1	21.	The method of claim 1, wherein at least some of the local stations are located
2	within a cell t	hat includes multiple access points, the method further comprising:
3	using	the central authority to route real time traffic through the one of the access points
4	that has the le	ast amount of existing traffic.

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	1	22. The method of claim 1, wherein at least some of the local stations are located
	2	within a cell that has multiple carrier frequencies that overlap in the cell, the method further
	3	comprising:
	4	using the central authority to transmit real time traffic using the carrier frequency that
	5	best meets a predefined criteria.
	1	23. The method of claim 22, wherein the predefined criteria comprises at least one of
	2	the following: bit error rate and the latency of the medium.
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CAL	1	24. A wireless communication system comprising:
J	2	local stations; and
	3	a central authority to:
#5 . =	4	communicate with the local stations over a wireless medium,
1: pd == =: ==	5	receive a request from one of the local stations to reserve a time slot for
.] ≜:	6	transmissions from said one of the local stations,
מיים איים וו מיים או המיים מיים מיים מיים מיים מיים מיים מיי	7	selectively reserve the time slot based on at least in part a reservation schedule,
13	8	and
13	9	if the time slot is reserved, prevent the remaining one or more local stations other
 1-1	0	than said one of the local stations from transmitting during the time slot.
# <b>4</b> 1		
	1	25. The system of claim 24, wherein said one of the local stations transmits real time
	2	information during the time slot.
	1	26. The system of claim 24, wherein said one of the local stations is adapted to
	2	transmit a reservation frame to the central authority to communicate the request.
	1	27. The system of claim 26, wherein the reservation frame indicates one or more of
	2	the following:
	3	a traffic priority, a start time, and a traffic type.

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- The system of claim 26, wherein the reservation frame indicates a required 28. throughput and a periodicity of transmissions if the central authority does not know a traffic type of the communication during the time slot.
- 29. The system of claim 24, wherein the central authority, before the beginning of the reserved time slot, transmits a frame to update a network allocation vector of each local station with a duration of the time slot to cause at the remaining local stations to ascertain that the wireless medium is busy during the time slot.
- The system of claim 24, wherein the local stations and the central authority are 30. associated with a cell and the central authority is adapted to communicate the request between the central authority and a second central authority that is associated with another cell, wherein the selective reservation by the first central authority is further based at least in part on the reservation schedule maintained by the first central authority.
- An article comprising a machine-readable storage medium storing instructions to cause a control unit to:

communicate with local stations over a wireless medium,

receive a request from one of the local stations to reserve a time slot for transmissions from said one of the local stations,

selectively reserve the time slot based on at least in part a reservation schedule, and if the time slot is reserved, prevent the remaining one or more local stations other than said one of the local stations from transmitting during the time slot.

- The article of claim 31, wherein said one of the local stations communicates real 32. time information during the time slot.
- The article of claim 31, wherein the storage medium stores instructions to cause 33. the control unit, before the beginning of the reserved time slot, transmit a frame to update a network allocation vector of each local station with a duration of the time slot to cause at the remaining local stations to ascertain that the wireless medium is busy during the time slot.

34. The article of claim 31, wherein the local stations and the control unit are associated with a cell and the control unit is adapted to communicate the request between the control unit and a central authority that is associated with another cell, the storage medium storing instructions to cause the control unit to base the selective reservation on the reservation schedule maintained by the control unit.